

external layer is formed from a composition comprising as a polymer matrix a polyamide composition comprising:

(i) a polyamide thermoplastic copolymer obtained by copolymerization of  $\epsilon$ -caprolactam with at least one of the monomers comprising:

- an amino acid comprising at least 9 carbon atoms, or a corresponding lactam, or
- a mixture of hexamethylenediamine with a diacid comprising at least 9 carbon atoms,

the ratio by weight between the  $\epsilon$ -caprolactam and the total amount of hexamethylenediamine and diacid and/or said amino acid being between 4 and 9, or

(ii) a mixture of at least said thermoplastic polyamide copolymer (i) and at least one second thermoplastic polyamide or copolyamide obtained by polymerization of monomers comprising fewer than 9 carbon atoms, the content by weight of the second polymer or copolymer in the polymer matrix being between 0 and 80% by weight.

4. Structure according to claim 1, wherein it forms a pipe, a tube or the walls of a chamber.

6. Structure according to claim 5, wherein at least one of said intermediate layers are formed from the composition forming the external layer of the structure.

7. Structure according to claim 5, wherein at least one of the intermediate layers are formed from the composition forming the internal layer.

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~~8. Structure according to claim 5, wherein the internal intermediate layers and the external intermediate layers are arranged alternately in the transverse direction of the structure.~~

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C2

~~9. Structure according to claim 5, wherein it comprises outer layers formed by the composition forming the external layer, and at least one intermediate layer formed by the composition forming the internal layers.~~

SUB  
C2

~~10. Structure according to claim 1, wherein the composition forming the external layer and/or the external intermediate layers comprises a first 6/6-36 thermoplastic copolyamide and a second PA 6 thermoplastic polyamide.~~

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~~11. Structure according to claim 1, wherein the composition forming the external layer and/or the external intermediate layers comprises an impact modifier, optionally comprising functional groups which can react with the polyamide or polyamides.~~

~~12. Structure according to claim 1, wherein the composition forming the internal layer and/or the internal intermediate layers has a modulus of less than 1500 MPa.~~

~~16. Structure according to claim 14, wherein at least some of the impact modifiers comprise polar functional groups capable of reacting with the polyamide matrix.~~

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17. Structure according to claim 16, wherein the polar functional groups are selected from the group consisting of acid, anhydride, acrylic, methacrylic and epoxy functional groups.

B4 18. Structure according to claim 15, wherein the impact modifier is an ultra-low-density polyethylene (ULDPE) having a density of less than  $0.9 \text{ g/cm}^3$  and a melt flow index of between 0.1 and 7 g/10 min measured at  $190^\circ\text{C}$  under a load of 2.16 kg.

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